



# Fostering Partnerships in T&E and Acquisition

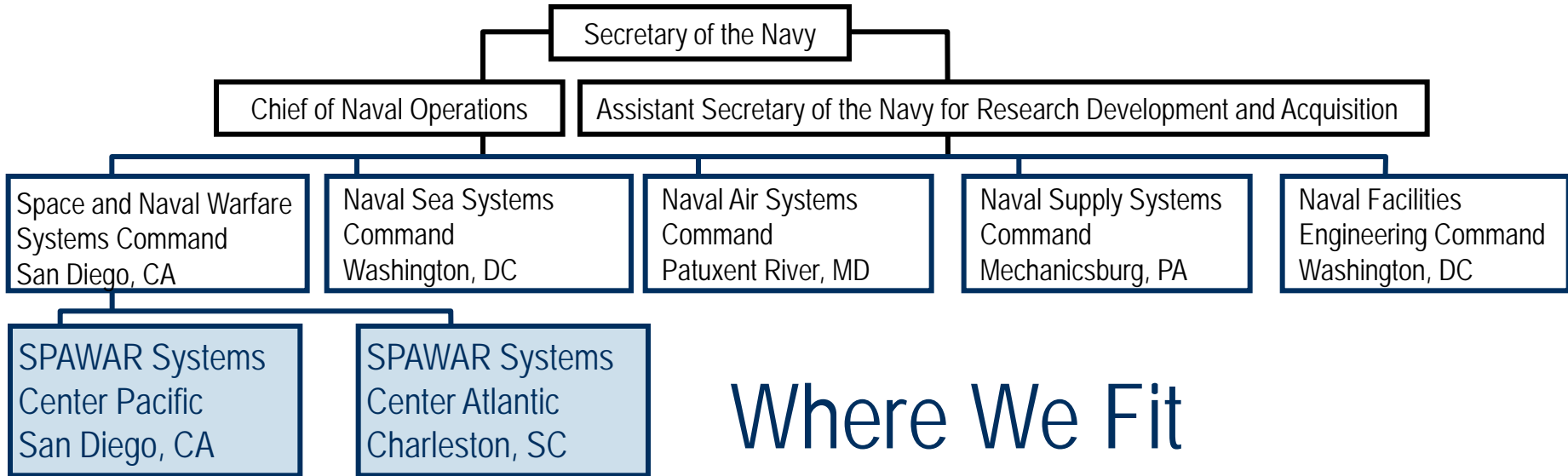
Rapid Assessment to Support  
Technology Demonstrations  
Mr. Jay Zook

# Background

- ▼ *Testing in a Joint Environment Roadmap, Strategic Planning Guidance, Fiscal Years 2006 – 2011, Final Report, November 12, 2004*
  - The Department of Defense needs a more robust, focused, and tightly coupled T&E capability that places testing in a joint environment and joint interoperability testing at the core of T&E activity, rather than as an extension to system-centric testing.
  - The Department of Defense will provide new testing capabilities ... as part of new capabilities-based processes.
  - The COCOMS are ultimate customers of capabilities-based acquisition and testing.
  - The phased establishment of the responsible field-level PMO
- ▼ *The FY 2006-2011 SPG contains a clear statement of Department policy*
  - The Department of Defense will provide new testing capabilities and institutionalize the evaluation of joint system effectiveness as part of new capabilities-based processes.

*“Within the acquisition process, realism and stability can be fostered through greater emphasis on independent assessments of costs, technology readiness, and testing maturity, particularly during the early stages of programs.*

*...” Mr. William Lynn III, Deputy Secretary of Defense*

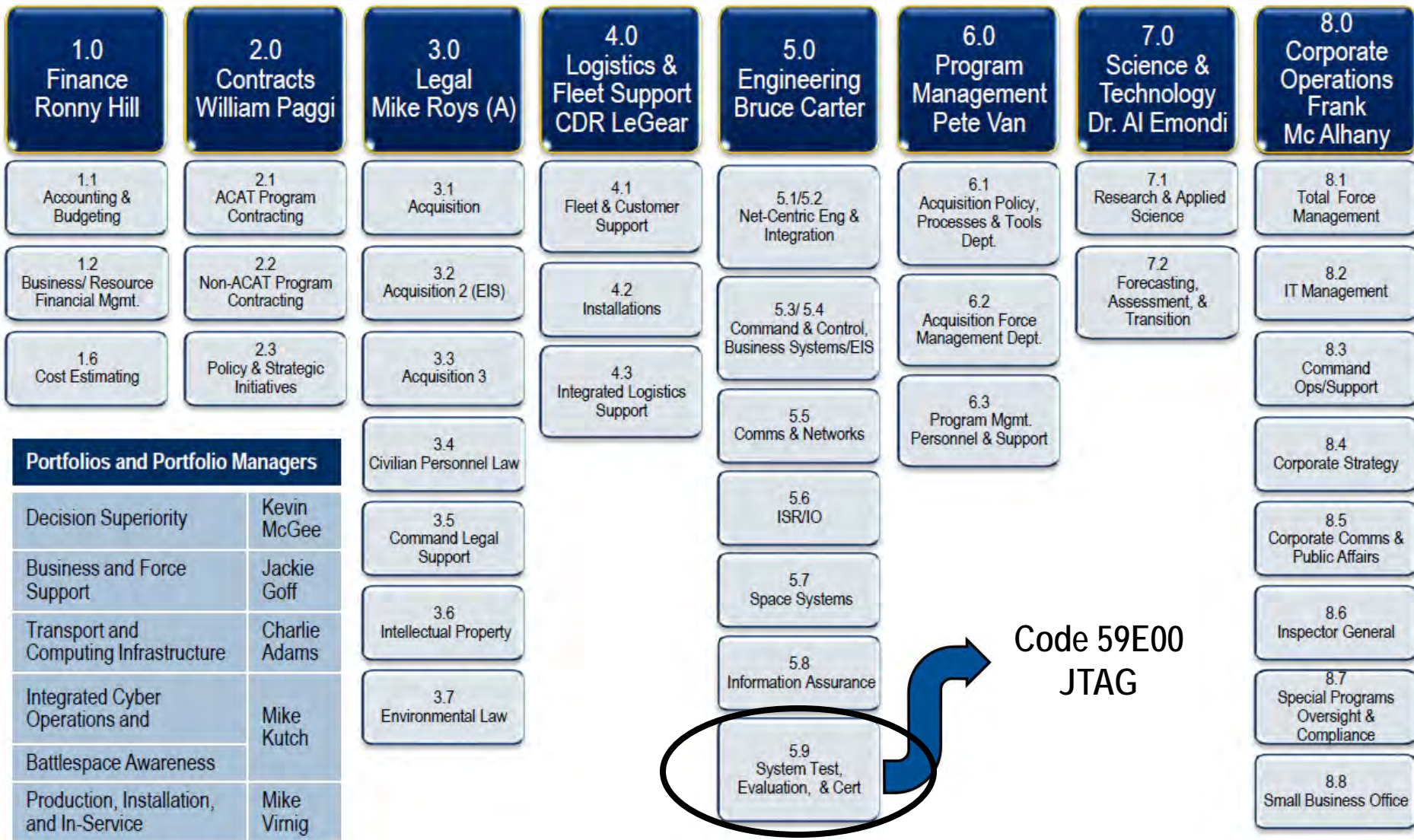


## Where We Fit

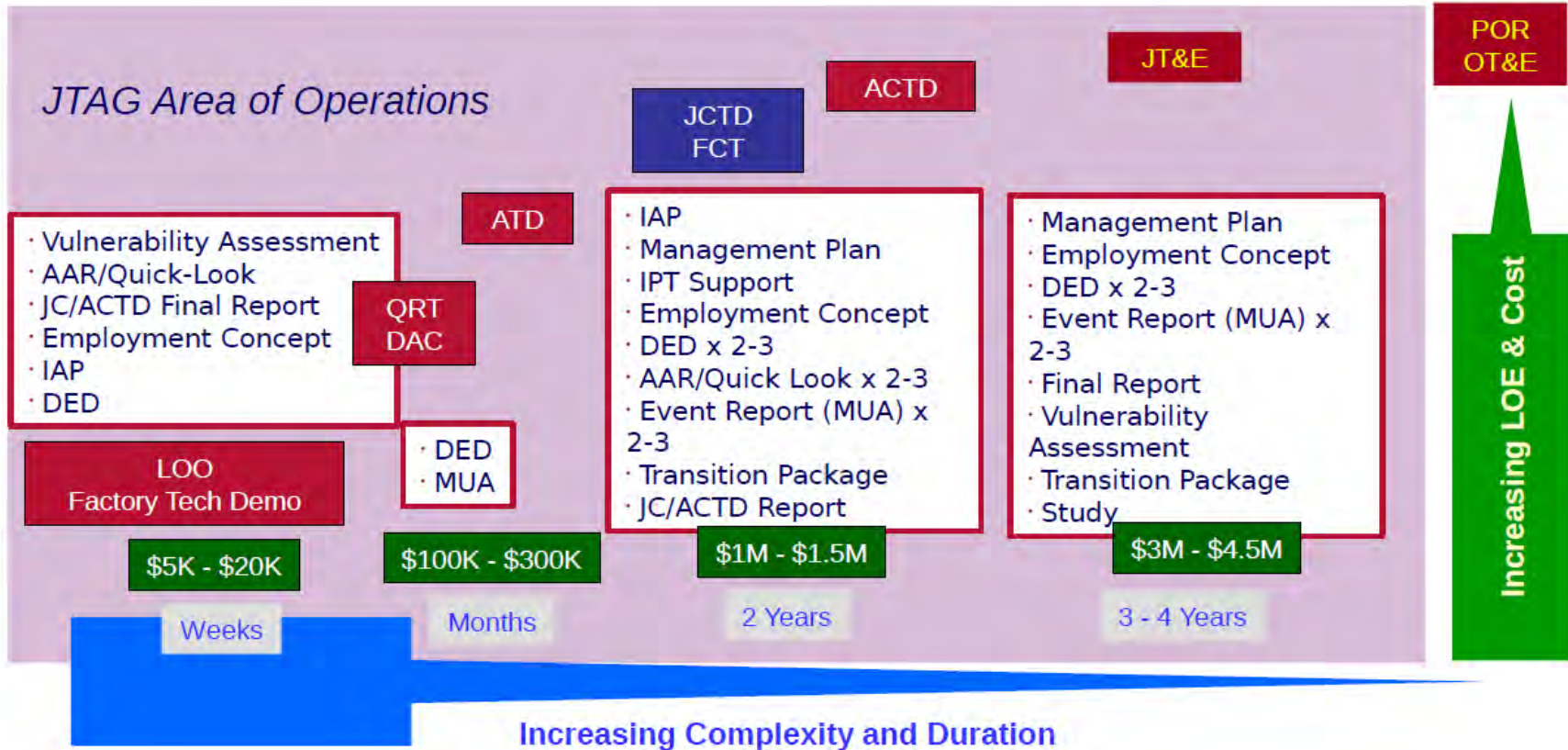
### Our Mission:

Provide quality full-service systems engineering and acquisition to rapidly deploy capabilities to the Naval, Joint and National Warfighter through the development, test, evaluation, production and fielding of sustainable, survivable and interoperable Command, Control, Communications, Computers, Intelligence, Surveillance, Reconnaissance, Information Operations, Enterprise Information Services and Space capabilities that enable knowledge superiority.

# SSC-LANT: A Competency-Aligned Organization



# Joint Test Assessments Group – JTAG

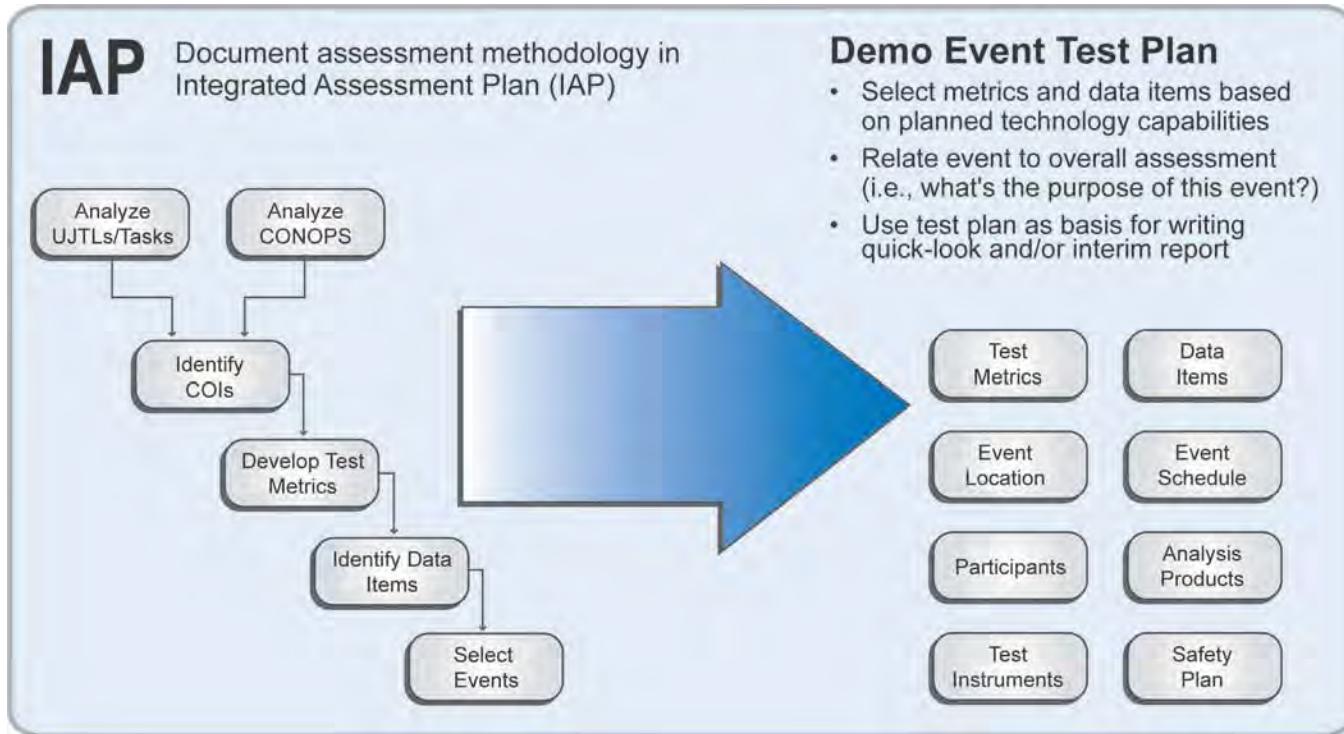


AAR – After Action Report  
 ATD – Advanced Technology Demonstration  
 DAC – Defense Acquisition Challenge  
 DED – Demonstration Execution Document

FCT – Foreign Comparative Test  
 IAP – Integrated Assessment Plan  
 JT&E – Joint Test & Evaluation  
 LOO - Letter of Observation

MUA – Military Utility Assessment  
 QRT – Quick Reaction Test  
 TEMP – Test & Evaluation Master Plan

# Capabilities Based Assessments








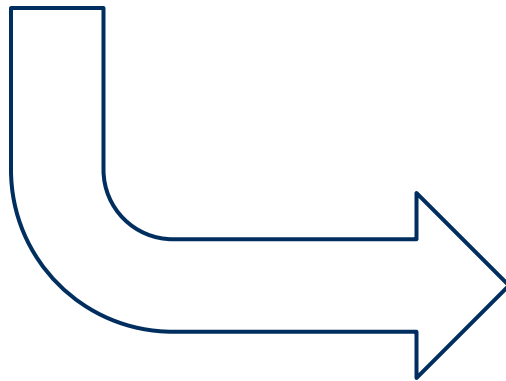
COI 1: Does the system work? (functionality)

COI 2: Does the system improve operations? (mission impact )

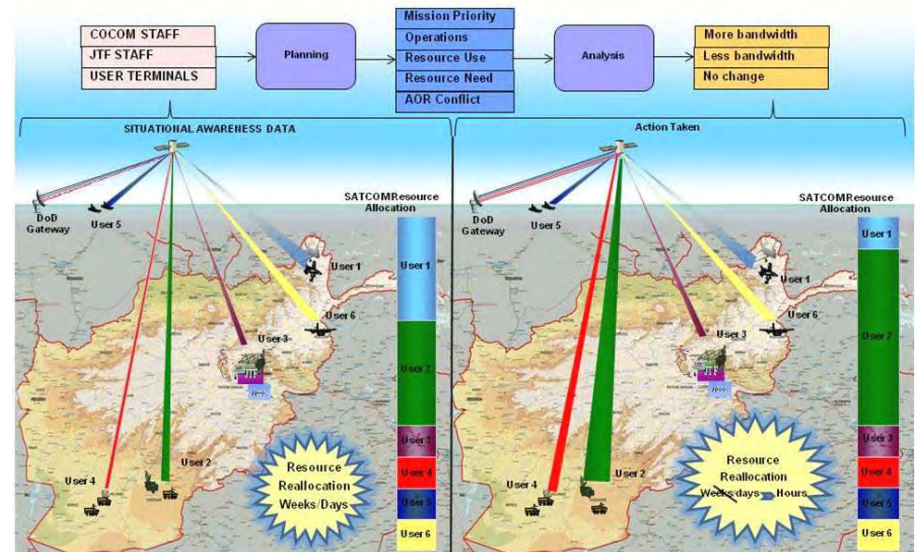
COI 3: Can the system be employed in its intended environment? (system employment)  
[addresses trends for Navy S-tests, such as reliability, maintainability]

# System Utility Rating

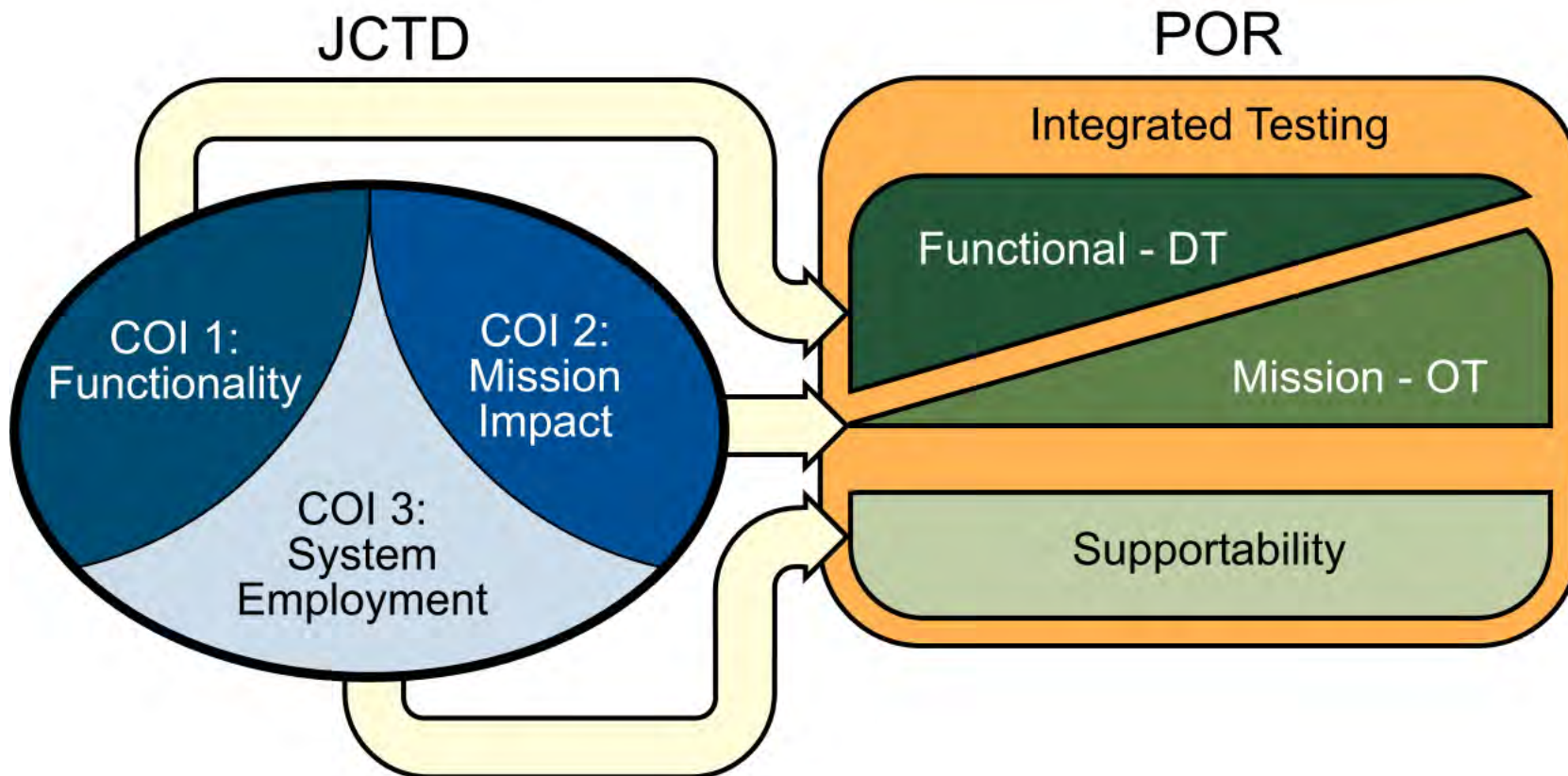
RATING	
Demonstrated Operational Utility, no issues	
Demonstrated Operational Utility, minor issues noted	
Demonstrated Operational Utility, significant issues noted	
No Operational Utility Demonstrated	
Not assessed	



- ▼ Ratings provide key data for transition decisions
  - Is the system ready?
  - How much burden will it be?
  - Does it *really* make a difference?

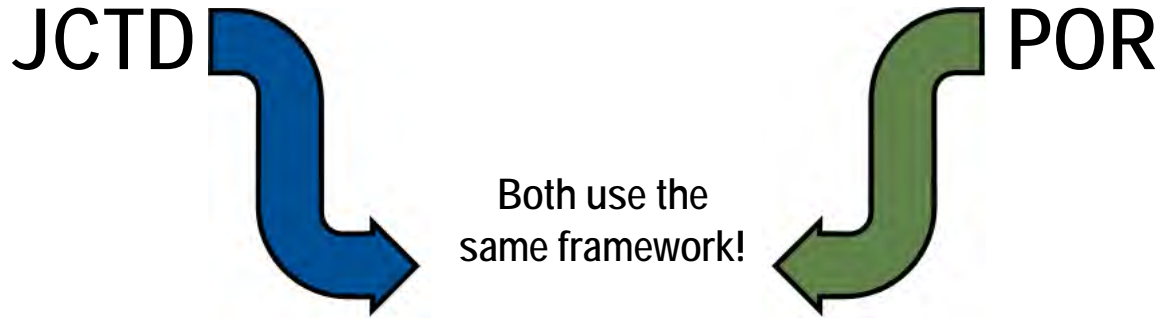


# T&E After Transition



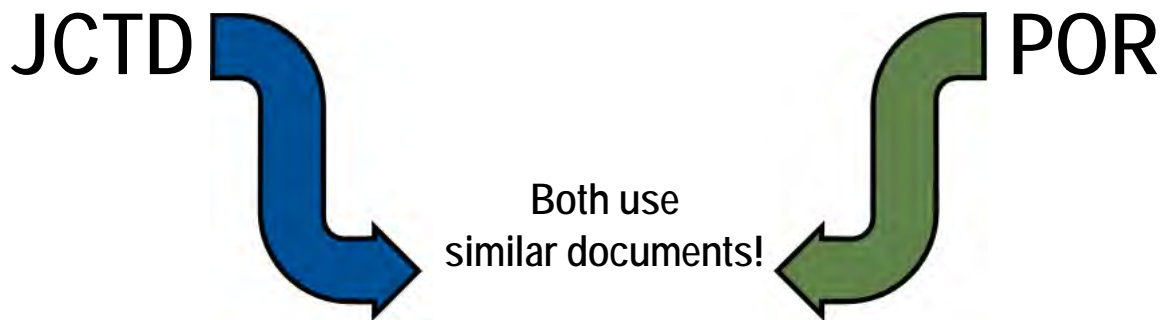


# Assessment/Evaluation Framework



Item	Description
COI	Questions posed in operational contexts that seek to ascertain how a technology or capability will accomplish a needed mission requirement.
Objective	A number of subtasks that must be accomplished for a COI to be comprehensively assessed.
MOE	Qualitative measures of success that are closely related to the achievement of a mission or operational objective being evaluated, in the intended operational environment under a specified set of conditions.
MOS	Quantitative or qualitative measures that characterize system employment capabilities or issues. MOSs are used to assess if the system can be employed in its intended environment.
MOP	Quantitative measures that characterize physical or functional attributes relating to the system operation measured under a specified set of testing or operational conditions. MOPs are used to assess whether the system meets design or performance requirements.

# Assessment/Evaluation Documents



Document	JCTD	POR
Overall Test Strategy	Integrated Assessment Plan	Test and Evaluation Master Plan
Detailed Test Plan	Demonstration Execution Document	OT&E Plan
Quick Look Report	Quick Look Report (memo or briefing, as required)	Varies by service, but usually a memo
Test Report	Operational Utility Assessment Report [limited if not the final report for the JCTD]	OT&E Report

# What's Different?

## JCTD

Informal (MP, SEP, ID)
Entry: 6-8 Exit: 8-9
Implicit or Explicit Assessment
Informal (contractor- provided)
Trends (insufficient sample size)
DoDI 5000.02

Requirements
System Maturity
KPPs
Training
Supportability
Authority

## POR

Formal (ICD, CDD)
TRL 9+
Mandatory
Formal (initial curriculum, OJT)
Mandatory (80% confidence level)
Title X

# Bottom Line

- ▼ JCTD assessments similar to traditional OT&E
  - Same foundation: capability- or mission-based assessment
  - Similar framework and documents
  - Minor differences, mostly based on system maturity and formality of documentation
  
- ▼ We set the stage for assessment transition
  - Structure (foundation for OT&E framework)
  - Documents (highlight areas for OTA scrutiny)
  - KPP status (on track for effectiveness?)
  - Supportability (on track for employment?)

# Point of Contact

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